

5'	9	18	27	36	45	54											
C	CCT	GAG	AGC	GTC	CCG	CAG	TGG	CTG	GAG	CCC	TGG	GCG	CTG	CAA	ACG	TGT	CCC
	63	72	81	90	99	108											
GCC	GGG	TCC	CCG	AGC	GTC	CCG	CGC	CCT	CGC	CCC	GCC	ATG	CTC	CTG	CTG	CTG	GGG
												M	L	L	L	L	G
	117	126	135	144	153	162											
CTG	TGC	CTG	GGG	CTG	TCC	CTG	TGT	GTG	GGG	TCG	CAG	GAA	GAG	GCG	CAG	AGC	TGG
L	C	L	G	L	S	L	C	V	G	S	Q	E	E	A	Q	S	W
	171	180	189	198	207	216											
GGC	CAC	TCT	TCG	GAG	CAG	GAT	GGA	CTC	AGG	GTC	CCG	AGG	CAA	GTC	AGA	CTG	TTG
G	H	S	S	E	Q	D	G	L	R	V	P	R	Q	V	R	L	L
	225	234	243	252	261	270											
CAG	AGG	CTG	AAA	ACC	AAA	CCT	TTG	ATG	ACA	GAA	TTT	TCA	GTG	AAG	TCT	ACC	ATC
Q	R	L	K	T	K	P	L	M	T	E	F	S	V	K	S	T	I
	279	288	297	306	315	324											
ATT	TCC	CGT	TAT	GCC	TTC	ACT	ACG	GTT	TCC	TGC	AGA	ATG	CTG	AAC	AGA	GCT	TCT
I	S	R	Y	A	F	T	T	V	S	C	R	M	L	N	R	A	S
	333	342	351	360	369	378											
GAA	GAC	CAG	GAC	ATT	GAG	TTC	CAG	ATG	CAG	ATT	CCA	GCT	GCA	GCT	TTC	ATC	ACC
E	D	Q	D	I	E	F	Q	M	Q	I	P	A	A	A	F	I	T

Figure 1

387	AAC TTC ACT ATG CTT ATT GGA GAC AAG GTG TAT CAG GGC GAA ATT ACA GAG AGA	396	405	414	423	432
	N F T M L I G D K V Y Q G E I T E R					
441	GAA AAG AAG AGT GGT GAT AGG GTA AAA GAG AAA AAT AAA ACC ACA GAA GAA	450	459	468	477	486
	E K K S G D R V K E K R N K T T E E					
495	AAT GGA GAG AAG GGG ACT GAA ATA TTC AGA GCT TCT GCA GTG ATT CCC AGC AAG	504	513	522	531	540
	N G E K G T E I F R A S A V I P S K					
549	GAC AAA GCC GCC TTT TTC CTG AGT TAT GAG GAG CTT CTG CAG AGG CGC CTG GGC	558	567	576	585	594
	D K A A F F L S Y E E L L Q R R L G					
603	AAG TAC GAG CAC AGC ATC AGC GTG CGG CCC CAG CAG CTG TCC GGG AGG CTG AGC	612	621	630	639	648
	K Y E H S I S V R P Q Q L S G R L S					
657	GTG GAC GTG AAT ATC CTG GAG AGC GCG GGC ATC GCA TCC CTG GAG GTG CTG CCG	666	675	684	693	702
	V D V N I L E S A G I A S L E V L P					
711	CTT CAC AAC AGC AGG CAG AGG GGC AGT GGC CGC GGG GAA GAT GAT TCT GGG CCT	720	729	738	747	756
	L H N S R R Q R G S G R G E D D S G P					

FIGURE 1B

765	774	783	792	801	810
CCC CCA TCT ACT GTC ATT AAC CAA AAT GAA ACA TTT GCC AAC ATA ATT TTT AAA					
P P S T V I N Q N E T F A N I I F K					
819	828	837	846	855	864
CCT ACT GTA GTA CAA CAA GCC AGG ATT GCC CAG AAT GGA ATT TTG GGA GAC TTT					
P T V V Q Q A R I A Q N G I L G D F					
873	882	891	900	909	918
ATC ATT AGA TAT GAC GTC AAT AGA GAA CAG AGC ATT GGG GAC ATC CAG GTT CTA					
I I R Y D V N R E Q S I G D I Q V L					
927	936	945	954	963	972
AAT GGC TAT TTT GTG CAC TAC TTT GCT CCT AAA GAC CTT CCT CCT TTA CCC AAG					
N G Y F V H Y F A P K D L P P L P K					
981	990	999	1008	1017	1026
AAT GTG GTA TTC GTG CTT GAC AGC AGT GCT TCT ATG GTG GGA ACC AAA CTC CGG					
N V V F V L D S S A S M V G T K L R					
1035	1044	1053	1062	1071	1080
CAG ACC AAG GAT GCC CTC TTC ACA ATT CTC CAT GAC CTC CGA CCC CAG GAC CGT					
Q T K D A L F T I L H D L R P Q D R					
1089	1098	1107	1116	1125	1134
TTC AGT ATC ATT GGA TTT TCC AAC CGG ATC AAA GTA TGG AAG GAC CAC TTG ATA					
F S I I G F S N R I K V W K D H L I					

FIGURE 1C

1143	1152	1161	1170	1179	1188
TCA GTC ACT CCA GAC AGC ATC AGG GAT GGG AAA GTG TAC ATT CAC CAT ATG TCA					
S V T P D S I R D G K V Y I H H M S					
1197	1206	1215	1224	1233	1242
CCC ACT GGA GGC ACA GAC ATC AAC GGG GCC CTG CAG AGG GCC ATC AGG CTC CTC					
P T G G T D I N G A L Q R A I R L L					
1251	1260	1269	1278	1287	1296
AAC AAG TAC GTG GCC CAC AGT GGC ATT GGA GAC CGG AGC GTG TCC CTC ATC GTC					
N K Y V A H S G I G D R S V S L I V					
1305	1314	1323	1332	1341	1350
TTC CTG ACG GAT GGG AAG CCC ACG GTC GGG GAG ACG CAC ACC CTC AAG ATC CTC					
F L T D G K P T V G E T H T L K I L					
1359	1368	1377	1386	1395	1404
AAC AAC ACC CGA GAG GCC GCC CGA GGC CAA GTC TGC ATC TTC ACC ATT GGC ATC					
N T R E A A R G Q V C I F T I G I					
1413	1422	1431	1440	1449	1458
GGC AAC GAC GTG GAC TTC AGG CTG CTG GAG AAA CTG TCG CTG GAG AAC TGT GGC					
G N D V D F R L L L E K L S L E N C G					
1467	1476	1485	1494	1503	1512
CTC ACA CGG CGC GTG CAC GAG GAG GAG GAC GCA GGC TCG CAG CTC ATC GGC TTC					
L T R R V H E E E D A G S Q L I G F					

FIGURE 1D

1521	1530	1539	1548	1557	1566
TAC GAT GAA ATC AGG ACC CCG CTC CTC TCT GAC ATC CGC ATC GAT TAT CCC CCC					
Y D E I R T P L L S D I R I D Y P P					
1575	1584	1593	1602	1611	1620
AGC TCA GTG GTG CAG GCC ACC AAG ACC CTG TTC CCC AAC TAC TTC AAC GGC TCG					
S S V V Q A T K T L F P N Y F N G S					
1629	1638	1647	1656	1665	1674
GAG ATC ATC ATT GCG GGG AAG CTG GTG GAC AGG AAG CTG GAT CAC CTG CAC GTG					
E I I I A G K L V D R K L D H L H V					
1683	1692	1701	1710	1719	1728
GAG GTC ACC GCC AGC AAC AGT AAG AAA TTC ATC ATC CTG AAG ACA GAT GTG CCT					
E V T A S N S K K F I I L K T D V P					
1737	1746	1755	1764	1773	1782
GTG CGG CCT CAG AAG GCA GGG AAA GAT GTC ACA GGA AGC CCC AGG CCT GGA GGC					
V R P Q K A G K D V T G S P R P G G					
1791	1800	1809	1818	1827	1836
GAT GGA GAG GGG GAC ACC AAC CAC ATC GAG CGT CTC TGG AGC TAC CTC ACC ACA					
D G E G D T N H I E R L W S Y L T T					
1845	1854	1863	1872	1881	1890
AAG GAG CTG CTG AGC TCC TGG CTG CAA AGT GAC GAT GAA CCG GAG AAG GAG CGG					
K E L L S S W L Q S D D E P E K E R					

FIGURE 1E

# T05040" C0482860

1899	CTG CGG CAG CGG GCC CAG GCC CTG GCT GTG AGC TAC CGC TTC CTC ACT CCC TTC	1908	1917	1926	1935	1944
	L R Q R A Q A L A V S Y R F L T P F					
1953	ACC TCC ATG AAG CTG AGG GGG CCG GTC CCA CGC ATG GAT GGC CTG GAG GAG GCC	1962	1971	1980	1989	1998
	T S M K L R G P V P R M D G L E E A					
2007	CAC GGC ATG TCG GCT GCC ATG GGA CCC GAA CCG GTG GTG CAG AGC GTG CGA GGA	2016	2025	2034	2043	2052
	H G M S A A M G P E P V V Q S V R G					
2061	GCT GGC ACG CAG CCA GGG CCT TTG CTC AAG AAG CCA TAC CAG CCA AGA ATT AAA	2070	2079	2088	2097	2106
	A G T Q P G P L L K K P Y Q P R I K					
2115	ATC TCT AAA ACA TCA GTG GAT GGT GAT CCC CAC TTT GTT GTG GAT TTC CCC CTG	2124	2133	2142	2151	2160
	I S K T S V D G D P H F V V D F P L					
2169	AGC AGA CTC ACC GTG TGC TTC AAC ATT GAT GGG CAG CCC GGG GAC ATC CTC AGG	2178	2187	2196	2205	2214
	S R L T V C F N I D G Q P G D I L R					
2223	CTG GTC TCT GAT CAC AGG GAC TCT GGT GTC ACA GTG AAC GGA GAG TTA ATT GGG	2232	2241	2250	2259	2268
	L V S D H R D S G V T V N G E L I G					

FIGURE 1F

2277	2286	2295	2304	2313	2322
GCA CCC GCC CCT CCA AAT GGC CAC AAG AAA CAG CGC ACT TAC TTG CGC ACT ATC	A P A P P N G H K K Q R T Y L R T I				
2331	2340	2349	2358	2367	2376
ACC ATC CTC ATC AAC AAG CCA GAG AGA TCT TAT CTC GAG ATC ACA CCG AGC AGA	T I L I N K P E R S Y L E I T P S R				
2385	2394	2403	2412	2421	2430
GTC ATC TTG GAT GGT GGG GAC AGA CTG GTG CTC CCC TGC AAC CAG AGT GTG GTG	V I L D G G G D R L V L P C N Q S V V				
2439	2448	2457	2466	2475	2484
GTG GGG AGC TGG GGG CTG GAG GTG TCC GTG TCT GCC AAC GCC AAT GTC ACC GTC	V G S W G L E E V S S A N A N V T V				
2493	2502	2511	2520	2529	2538
ACC ATC CAG GGC TCC ATA GCC TTT GTG ATC CTC ATC CAC CTC TAC AAA AAG CCG	T I Q G S I A F V I L I H L Y K K P				
2547	2556	2565	2574	2583	2592
GCG CCC TTC CAG CGA CAC CAC CTG GGT TTC TAC ATT GCC AAC AGC GAG GGC CTT	A P F Q R H H L L G F Y I A N S E G L				
2601	2610	2619	2628	2637	2646
TCC AGC AAC TGC CAC GGA CTG CTG GGT CAG TTC CTG AAT CAG GAT GCC AGA CTC	S S N C H G L L G Q F L N Q D A R L				

FIGURE 1G

2655	2664	2673	2682	2691	2700
ACA GAA GAC CCT GCA GGG CCC AGC CAG AAC CTC ACT CAC CCT CTG CTC CTT CAG					
T E D P A G P S Q N L T H P L L L Q					
2709	2718	2727	2736	2745	2754
GTG GGA GAG GGG CCT GAG GCC GTC CTA ACA GTG AAA GGC CAC CAA GTC CCA GTG					
V G E G P E A V L T V K G H Q V P V					
2763	2772	2781	2790	2799	2808
GTC TGG AAG CAA AGG AAG ATT TAC AAC GGG GAA GAG CAG ATA GAC TGC TGG TTT					
V W K Q R K I Y N G E E Q I D C W F					
2817	2826	2835	2844	2853	2862
GCC AGG AAC AAT GCC GCC AAA CTG ATT GAC GGG GAG TAC AAG GAT TAC CTG GCA					
A R N N A A K L I D G E Y K D Y L A					
2871	2880	2889	2898	2907	2916
TCC CAT CCA TTT GAC ACA GGG ATG ACA CTT GGC CGG GGA ATG TCC AGG GAG CTC					
S H P F D T G M T L G R G M S R E L					
2925	2934	2943	2952	2961	2970
TGA AGC TGG CAG CCT TAA AGA TGC AAG TGC ATG AAG GAC AGT GAT GTG GGG AGG					
2979	2988	2997	3006	3015	3024
CCG TGG GGC AGC TCT TTT CAT GGC TTG TAC ACG CCT CAG CTC CTG GCA ATT AGC					

FIGURE 1H



3033	3042	3051	3060	3069	3078
TGG ACT CCA TGA CCC ACC CCT GGT GCA GCA TAG ATC CGA CGT CTG TCT GGG CGA					
3087	3096	3105	3114	3123	3132
AGG GTA GGG GTG GGT AGG GGC GGG AAG CCT GAG TGC AAA TGT CAT TTC CCT CTA					
3141	3150	3159	3168	3177	3186
CTG CCT CTT CCT GCC TCT CCC CAC CCT GCC CAC ATC CAC AGA GGG GAG AGA AGG					
3195	3204	3213	3222	3231	3240
GTC ATA GCT AAA TGC AAC AAA GTC TGT ATC TTG TCC CAA CCT GCT TTT CTG TTC					
3249	3258	3267	3276	3285	3294
TGT TAG CAT ATC ATA AAG TAA GCC TTT CTG GTG AAG GAA GGT TGC TAT GAA ACT					
3303	3312	3321	3330	3339	3348
TTT TTT CTT GGT GGA AAT GGC CAA GTT TAG GCA CTC TGC TTT TTG CCT TAC ACT					
3357	3366	3375	3384	3393	3402
AAT GCT TAG AAA GCT GTC TTT TCA GTG GTG TTG CAG CCC CCA GAT GTG TGG CCA					
3411	3420	3429	3438	3447	3456
ACC TCT GCT GCA AAG GAA TCT CTT GCT GAG TCC AGG CCA CCA ATC AGG CAA ATA					
3465	3474	3483	3492	3501	3510
GCC CAT ACA TTT GAT CGT TGT AAA CCA TGA AGT CTT TTC TTG CAA GAC GTT TTT					

FIGURE 11

Figure 1J

3519	3528	3537	3546	3555	3564
CTT CTG CTG TGG TAT CTT GCC CTT AAA AAT TAG TTT TCA TTA AAA AGA AAT TTG					
3573	3582	3591	3600	3609	3618
ATT GAA AAT TAA AAA AAA ATA AAA AAA GAA AAA AAA GAA GAA AAA AAT					
3627	3636				
AAA AAA AAA AAA AAA AA 3'					

FIGURE 1J

1	M	L	L	L	G	-	-	-	-	-	L	C	L	G	L	S	L	C	V	G	S	Q	E	E	A	Q	S	W	G	688183			
1	M	K	R	L	T	C	-	-	-	-	F	I	C	F	F	L	S	E	V	S	G	F	E	I	P	I	N	G	L	S	GI 33985		
1	M	D	G	A	M	G	P	R	G	L	L	L	C	M	Y	L	V	S	L	-	L	I	L	Q	A	M	P	A	L	G	GI 33989		
1	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	V	A	L	S	H	L	-	G	S	A	L	Q	L	G	S	L	C	GI 288563
26	H	S	S	E	Q	D	G	L	-	-	-	-	-	-	-	-	R	V	P	R	Q	V	R	L	L	Q	R	L	-	-	688183		
28	E	F	V	D	Y	E	D	L	V	E	L	A	P	G	K	F	Q	L	V	A	E	N	R	Y	Q	R	S	L	P	GI 33985			
30	-	-	-	-	-	-	-	-	-	-	S	A	T	G	R	S	K	S	S	E	-	-	-	-	-	K	R	Q	A	V	GI 33989		
18	-	-	-	-	-	-	-	-	-	-	F	P	R	S	P	F	R	L	L	G	-	-	-	-	-	K	R	S	L	P	GI 288563		
46	-	K	T	K	P	L	M	T	E	-	-	-	-	-	-	-	F	S	V	K	S	T	I	I	S	R	Y	A	F	688183			
58	G	E	S	E	M	M	E	E	V	D	Q	V	T	L	Y	S	Y	K	V	Q	S	T	I	T	S	R	M	A	T	GI 33985			
45	D	T	A	-	-	-	-	-	-	V	D	G	V	F	I	R	S	L	K	V	N	C	K	V	T	S	R	F	A	H	GI 33989		
33	E	G	V	-	-	-	-	-	-	A	N	G	I	E	V	S	T	K	I	N	S	K	V	T	S	R	F	A	H	GI 288563			
67	T	T	V	S	C	R	M	L	N	R	A	S	E	D	Q	D	I	E	F	Q	M	Q	I	P	A	A	A	F	I	T	688183		
88	T	M	I	Q	S	K	V	V	N	N	S	P	Q	P	Q	N	V	V	F	D	V	Q	I	P	K	G	A	F	I	S	GI 33985		
69	Y	V	V	T	S	Q	V	V	N	T	A	N	E	A	R	E	V	A	F	D	L	E	I	P	K	T	A	F	I	S	GI 33989		
57	N	V	V	T	M	R	A	V	N	R	A	D	T	A	K	E	V	S	F	D	V	E	L	P	K	T	A	F	I	T	GI 288563		
97	N	F	T	M	L	I	G	D	K	V	Y	Q	G	E	I	T	E	R	E	K	K	S	G	D	R	V	K	E	K	R	688183		
118	N	F	S	M	T	V	D	G	K	T	F	R	S	S	I	K	E	K	T	V	G	R	A	L	Y	A	Q	A	R	A	GI 33985		
99	D	F	A	V	T	A	D	G	N	A	F	I	G	D	I	K	D	K	V	T	A	W	K	Q	Y	R	K	A	A	I	GI 33989		
87	N	F	T	L	T	I	D	G	V	T	Y	P	G	N	V	K	E	K	E	V	A	K	K	Q	Y	E	K	A	V	S	GI 288563		

FIGURE 2A

127	N	K	T	T	E	E	-	-	-	N	G	E	K	G	T	E	I	F	R	A	S	A	V	I	P	S	K	D	K	A	688183
148	K	G	K	T	A	G	L	V	R	S	A	L	D	M	E	N	F	R	T	E	V	N	V	L	P	G	A	K	V	GI 33985	
129	S	G	E	N	A	G	L	V	R	A	S	G	R	T	M	E	Q	F	T	I	H	L	T	V	N	P	Q	S	K	V	GI 33989
117	Q	G	K	T	A	G	L	V	K	A	S	G	R	K	L	E	K	F	T	V	S	V	N	V	A	A	G	S	K	V	GI 288563
154	A	F	L	S	Y	E	E	L	L	Q	R	R	L	G	K	Y	E	H	S	I	S	V	R	P	Q	Q	L	S	G	688183	
178	Q	F	E	L	H	Y	Q	E	V	K	W	R	K	L	G	S	Y	E	H	R	I	Y	L	Q	P	G	R	L	A	K	GI 33985
159	T	F	Q	L	T	Y	E	E	V	L	K	R	N	H	M	Q	Y	E	I	V	I	K	V	K	P	K	Q	L	V	H	GI 33989
147	T	F	E	L	T	Y	E	E	L	L	K	R	H	K	G	K	Y	E	M	Y	L	K	V	Q	P	K	Q	L	V	K	GI 288563
184	R	L	S	V	D	V	N	I	L	E	S	A	G	I	A	S	L	E	V	L	P	L	H	N	S	R	Q	R	G	S	688183
208	H	L	E	V	D	V	W	V	I	E	P	Q	G	L	R	F	L	H	V	-	-	-	-	-	-	-	-	P	D	T	GI 33985
189	H	F	E	I	D	V	D	I	F	E	P	Q	G	I	S	K	L	D	A	-	-	-	-	-	-	-	Q	A	S	GI 33989	
177	H	F	E	I	E	V	D	I	F	E	P	Q	G	I	S	M	L	D	A	-	-	-	-	-	-	-	-	E	A	S	GI 288563
214	G	R	G	E	D	S	G	P	P	P	S	T	V	I	N	Q	N	E	T	F	A	N	I	I	F	K	P	T	V	688183	
230	F	E	G	H	F	D	G	V	P	V	I	S	K	G	-	-	Q	Q	K	-	-	A	H	V	S	F	K	P	T	V	GI 33985
211	F	L	P	K	E	L	A	A	Q	T	I	K	K	S	F	S	G	K	K	-	-	G	H	V	L	F	R	P	T	V	GI 33989
199	F	I	T	N	D	L	L	G	S	A	L	T	K	S	F	S	G	K	K	-	-	G	H	V	S	F	K	P	S	L	GI 288563
244	V	Q	Q	-	-	-	A	R	I	A	Q	N	G	I	L	G	D	F	I	I	R	Y	D	V	N	R	E	Q	S	I	688183
256	A	Q	Q	R	I	C	P	S	C	R	E	T	A	V	D	G	E	L	V	V	L	Y	D	V	K	R	E	E	K	A	GI 33985
239	S	Q	Q	Q	S	C	P	T	C	S	T	S	L	N	G	H	F	K	V	T	Y	D	V	T	R	D	E	-	I	GI 33989	
227	D	Q	Q	R	S	C	P	T	C	T	D	S	L	N	G	D	F	T	I	T	Y	D	V	N	R	E	S	-	P	GI 288563	

FIGURE 2B

271	G	D	I	Q	V	L	N	G	Y	F	V	H	Y	F	A	P	K	D	L	P	P	L	P	K	N	V	V	F	V	L	688183	
286	G	E	L	E	V	F	N	G	Y	F	V	H	F	F	A	P	D	N	L	D	P	I	P	K	N	I	L	F	V	I	GI 33985	
268	C	D	L	L	V	A	N	H	F	A	H	F	F	F	A	P	Q	N	L	T	N	M	N	K	N	V	V	F	V	I	GI 33989	
256	G	N	V	Q	I	V	N	G	Y	F	V	H	F	F	A	P	Q	Q	G	L	P	V	V	P	K	N	V	A	F	V	I	GI 288563
301	D	S	S	A	S	M	V	G	T	K	L	R	Q	T	K	D	A	L	F	T	I	L	H	D	L	R	P	Q	D	R	688183	
316	D	V	S	G	S	M	W	G	V	K	K	Q	T	V	E	A	M	K	T	I	L	D	D	L	R	A	E	D	H	GI 33985		
298	D	I	S	G	S	M	R	G	Q	K	V	K	Q	T	K	E	A	L	L	K	I	L	G	D	M	Q	P	G	D	Y	GI 33989	
286	D	I	S	G	S	M	A	G	R	K	L	E	Q	T	K	E	A	L	L	R	I	L	E	D	M	K	E	E	D	Y	GI 288563	
331	F	S	I	I	G	F	S	N	R	I	K	V	W	K	D	H	L	I	S	V	T	P	D	S	I	R	D	G	K	V	688183	
346	F	S	V	I	D	F	N	Q	N	I	R	T	W	R	N	D	L	F	Q	L	Q	K	H	R	L	Q	I	A	K	R	GI 33985	
328	F	D	L	V	L	F	G	T	R	V	Q	S	W	K	G	S	L	V	Q	A	S	E	A	N	L	Q	A	A	Q	D	GI 33989	
316	L	N	F	I	L	F	S	G	D	V	S	T	W	K	E	H	L	V	Q	A	T	P	E	N	L	Q	E	A	R	T	GI 288563	
361	Y	I	H	H	M	S	P	T	G	G	T	D	I	N	G	A	L	Q	R	A	I	R	L	L	N	K	Y	V	A	H	688183	
376	Y	I	E	K	I	Q	P	S	G	G	T	N	I	N	E	A	L	L	R	A	I	F	I	L	N	E	A	N	N	L	GI 33985	
358	F	V	R	G	F	S	L	D	E	A	T	N	L	N	G	G	L	L	R	G	I	E	I	L	N	Q	V	Q	E	S	GI 33989	
346	F	V	K	S	M	E	D	K	G	M	T	N	I	N	D	G	L	L	R	G	I	S	M	L	N	K	A	R	E	E	GI 288563	
391	S	G	I	G	D	R	S	V	S	L	I	V	F	L	T	D	G	K	P	T	V	G	E	T	H	T	L	K	I	L	688183	
406	G	L	L	D	P	N	S	V	S	L	I	I	L	V	S	D	G	D	P	T	V	G	E	L	K	L	S	K	I	Q	GI 33985	
388	L	P	E	L	S	N	H	A	S	I	L	I	M	L	T	D	G	D	P	T	E	G	V	T	D	R	S	Q	I	L	GI 33989	
376	H	R	I	P	E	R	S	T	S	I	V	I	M	L	T	D	G	D	A	N	V	G	E	S	R	P	E	K	I	Q	GI 288563	

FIGURE 2C

421	N	N	T	R	E	A	A	R	G	Q	V	C	I	F	T	I	G	I	G	N	D	V	D	F	R	L	L	E	K	L	688183	
436	K	N	V	K	E	N	I	Q	D	N	I	S	L	F	S	L	G	M	G	F	D	V	D	Y	D	F	L	K	R	L	GI 33985	
418	K	N	V	R	N	A	I	R	G	R	F	P	L	Y	N	L	G	F	G	H	N	V	D	F	N	F	L	E	V	M	GI 33989	
406	E	N	V	R	N	A	I	G	G	K	F	P	L	Y	N	L	G	F	G	N	N	L	N	Y	N	F	L	E	N	M	GI 288563	
451	S	L	E	N	C	G	L	T	R	R	V	H	E	E	E	D	A	G	S	Q	L	I	G	F	Y	D	E	I	R	T	688183	
466	S	N	E	N	H	G	I	A	Q	R	I	Y	G	N	Q	D	T	S	S	Q	L	K	K	F	Y	N	Q	V	S	T	GI 33985	
448	S	M	E	N	N	G	R	A	Q	R	I	Y	E	D	H	D	A	T	Q	Q	L	Q	G	F	Y	S	Q	V	A	K	GI 33989	
436	A	L	E	N	H	G	F	A	R	R	I	Y	E	D	S	D	A	D	L	Q	L	Q	G	F	Y	E	V	A	N	GI 288563		
481	P	L	L	S	D	I	R	I	D	Y	P	P	S	S	V	V	Q	A	T	K	T	L	F	P	N	Y	F	N	G	S	688183	
496	P	L	L	R	N	V	Q	F	N	Y	P	H	T	S	V	T	D	V	T	Q	N	N	F	H	N	Y	F	G	G	S	GI 33985	
478	P	L	L	V	D	V	D	L	Q	Y	P	Q	D	A	V	L	A	L	T	Q	N	H	H	K	Q	Y	Y	E	G	S	GI 33989	
466	P	L	L	T	G	V	E	M	E	Y	P	E	N	A	I	L	D	L	T	Q	N	T	Y	Q	H	F	Y	D	G	S	GI 288563	
511	E	I	I	A	G	K	L	V	D	R	K	L	D	H	L	H	V	E	V	T	A	S	N	S	K	K	F	I	I	688183		
526	E	I	V	V	A	G	K	F	D	P	A	K	L	D	Q	I	E	S	V	I	T	A	T	S	A	N	T	Q	L	V	GI 33985	
508	E	I	V	V	A	G	R	I	A	D	N	K	Q	S	S	F	K	A	D	V	Q	A	H	G	E	G	Q	E	F	S	GI 33989	
496	E	I	V	V	A	G	R	L	V	D	E	D	M	N	S	F	K	A	D	V	K	G	H	G	A	T	N	D	L	T	GI 288563	
541	L	K	T	D	V	P	V	R	P	Q	K	A	G	K	D	V	T	G	S	P	R	P	G	G	D	G	E	G	D	T	688183	
556	L	E	T	L	A	Q	M	-	-	-	-	-	-	-	D	D	L	Q	D	F	L	S	K	D	K	H	A	D	P	D	-	GI 33985
538	I	T	C	L	V	D	E	-	-	-	-	-	-	-	E	E	M	K	K	L	L	R	E	R	G	H	M	L	E	N	-	GI 33989
526	F	T	E	E	V	D	M	-	-	-	-	-	-	-	K	E	M	E	K	A	L	Q	E	R	D	Y	I	F	G	N	-	GI 288563

FIGURE 2D

571	NHIERLW	SYLT	TKELL	SSWL	QSDDE	PEKER	688183
579	-FTRK	LWAL	YLT	INQL	LLAER	SLAPTAA	KRR
561	-HVER	LWAL	YLT	IQL	LLAER	SLAPTAA	KRR
549	-YIER	LWAL	YLT	IEQL	LLAER	SLAPTAA	KRR
601	LRRQA	QALAV	SYRFL	TPFT	SMKLR	GGPVPR	M
608	ITRS	ILQM	SLDH	HHIV	TPFL	TSLV	IEN--EAG
589	LSQA	LRMS	SLDY	GFV	TPFL	TSMS	IRGMADQD
577	LTA	RALDL	SLKY	HFV	TPFL	TSMV	VVTKPE
631	DG--	LEEA	HGMS	AA--	--	--	--MGPEP
636	DERM	LAD	APQ	DPSC	CSGAL	YYSK	VVPDS
619	GLK	PTID	KPS	EDSP--	--PL--	--	EMLGPRR
607	DERA	IADK	PGED	AE--	--A--	--	TPVSPAM
648	VVQS	VRGAGT	QPGPL	LKKPY	QPR	IKISK	TS
666	TPSW	ANPSP	TPVIS	MLAQ	GSQV	LES	TPPH
642	TFV	LSAL	QPS	PTH	S--	SNTR	LR--PDR
629	SY-L	TSY	QPPQ	--	--	--	--NP
678	--	VDGD	PHFV	VDFP	LSRL	TVCF	NI
696	VMR	VEN	DPHF	IYLP	KSQ	KNIC	FNID
666	VTG	VD	DPHF	IYLP	QKED	TL	CFNID
641	YY	VDG	DPHF	IYLP	QKED	TL	CFNID

FIGURE 2E

705	D	I	L	R	L	V	S	D	H	R	D	S	G	V	T	V	N	G	E	L	I	G	A	P	A	P	N	G	H	688183	
726	K	I	L	N	L	V	S	D	P	-	E	S	G	I	V	V	N	G	Q	L	V	G	A	K	K	-	-	P	N	N	GI 33985
696	V	I	L	S	L	V	Q	D	P	-	N	T	G	F	S	V	N	G	Q	L	I	G	N	K	A	R	S	P	G	Q	GI 33989
671	T	V	L	R	L	I	Q	D	A	-	V	T	G	L	T	V	N	G	Q	I	T	G	D	K	R	G	S	P	D	S	GI 288563
735	K	K	Q	R	T	Y	L	R	T	I	T	I	L	I	N	K	P	E	R	S	Y	L	E	I	T	P	S	R	V	I	688183
753	G	K	L	S	T	Y	F	G	K	L	G	F	Y	F	Q	S	E	D	I	K	-	I	E	I	S	T	E	T	I	T	GI 33985
725	H	D	-	G	T	Y	F	G	R	L	G	I	A	N	P	A	T	D	F	Q	-	L	E	V	T	P	Q	N	I	T	GI 33989
700	K	T	R	K	T	Y	F	G	K	L	G	I	R	N	A	Q	M	D	F	Q	-	V	E	V	T	T	E	K	I	T	GI 288563
765	L	D	G	G	D	R	-	L	V	L	P	C	N	Q	S	V	V	G	S	W	G	L	E	V	S	V	S	A	N	688183	
782	L	S	H	G	S	S	T	F	S	L	S	W	S	D	T	A	Q	V	T	N	Q	R	V	Q	I	S	V	K	K	E	GI 33985
753	L	N	P	G	F	G	P	V	F	S	W	R	D	Q	A	V	L	R	Q	D	G	V	V	T	I	N	K	K	GI 33989		
729	C	G	T	G	-	R	A	S	T	F	S	W	L	D	T	V	T	Q	D	G	L	S	M	I	N	R	K	GI 288563			
794	A	N	V	T	V	T	I	Q	G	S	I	A	F	V	I	L	I	H	L	Y	K	K	P	A	P	F	Q	R	H	H	688183
812	K	V	V	T	I	T	L	D	K	E	M	S	F	S	V	L	L	H	R	V	W	K	K	H	P	V	N	V	D	F	GI 33985
783	R	N	L	V	V	S	V	D	D	G	G	T	F	E	V	V	L	H	R	V	W	K	G	S	S	V	H	Q	D	F	GI 33989
758	-	N	M	V	V	S	F	G	D	G	V	T	F	V	V	V	L	H	Q	V	W	K	K	H	P	V	H	R	D	F	GI 288563
824	L	G	F	Y	I	A	N	S	E	G	L	S	S	N	C	H	G	L	L	G	Q	F	L	N	Q	-	D	A	R	L	688183
842	L	G	I	Y	I	P	P	T	N	K	F	S	P	K	A	H	G	L	I	G	Q	F	M	Q	E	P	K	I	H	I	GI 33985
813	L	G	F	Y	V	L	D	S	H	R	M	S	A	R	T	H	G	L	L	G	Q	F	F	H	P	I	G	F	E	V	GI 33989
787	L	G	F	Y	V	V	D	S	H	R	M	S	A	Q	T	H	G	L	L	G	Q	F	F	Q	P	F	D	F	K	V	GI 288563

FIGURE 2F



853	T	E	D	P	A	G	P	S	Q	N	L	T	H	P	L	L	Q	V	G	E	G	P	E	A	V	L	T	V	K	688183	
872	F	N	E	R	P	G	K	D	P	-	-	-	-	-	-	-	-	-	-	E	K	P	E	A	S	M	E	V	K	GI 33985	
843	S	D	I	H	P	G	S	D	P	-	-	-	-	-	-	-	-	-	-	T	K	P	D	A	T	M	V	V	R	GI 33989	
817	S	D	I	R	P	G	S	D	P	-	-	-	-	-	-	-	-	-	-	T	K	P	D	A	T	L	V	V	K	GI 288563	
883	G	H	Q	V	P	V	V	W	K	Q	R	K	I	Y	N	G	E	-	-	-	-	E	Q	I	D	C	W	F	A	R	688183
891	G	Q	K	L	I	I	T	R	G	L	Q	K	D	Y	R	T	D	L	V	F	G	T	D	V	T	C	W	F	V	H	GI 33985
862	N	R	R	L	T	V	T	R	G	L	Q	K	D	Y	S	K	D	P	W	H	G	A	E	V	S	C	W	F	I	H	GI 33989
836	N	H	Q	L	I	V	T	R	G	S	Q	K	D	Y	R	K	D	A	S	I	G	T	K	V	V	C	W	F	V	H	GI 288563
909	N	N	A	A	K	L	I	D	G	E	Y	K	D	Y	L	A	S	H	P	F	D	T	G	M	T	L	G	R	G	M	688183
921	N	S	G	K	G	F	I	D	G	H	Y	K	D	Y	F	V	P	Q	L	Y	-	-	-	-	-	-	-	-	S	F	GI 33985
892	N	N	G	A	G	L	I	D	G	A	Y	T	D	Y	I	V	P	D	I	F	-	-	-	-	-	-	-	-	-	-	GI 33989
866	N	N	G	E	G	L	I	D	G	V	H	T	D	Y	I	V	P	N	L	F	-	-	-	-	-	-	-	-	-	-	GI 288563
939	S	R	E	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	688183
943	L	K	R	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 33985
911	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 33989
885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 288563

FIGURE 2G

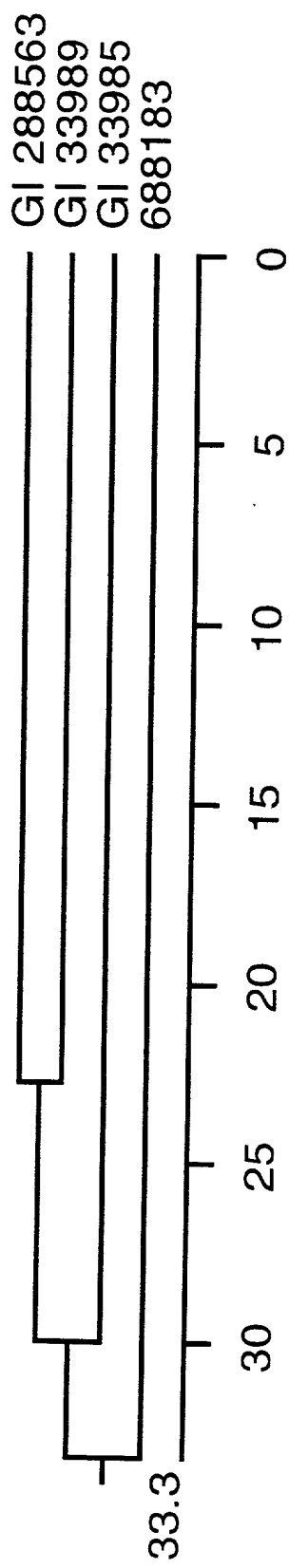


FIGURE 3